



April 21, 2021

# *Welcome!*

## Cathedral Park Project Area Working Group

**April Meeting!**

# Idea: On-Site Educational Activity

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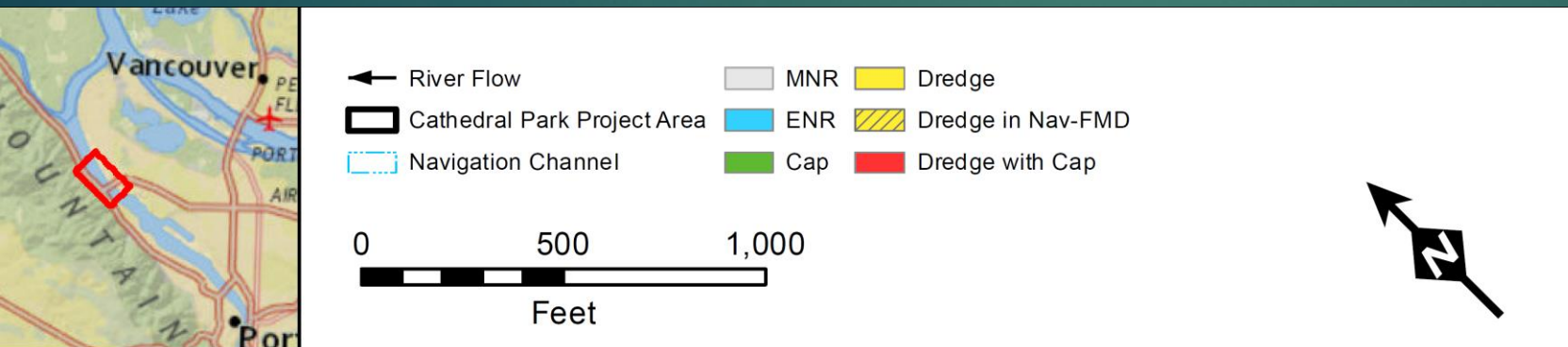
## R10 Incremental Sampling Methodology: Field Subsampling





# Cathedral Park Project Area

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Source Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

# Introductions!

- ▶ **Laura will introduce existing members!**
- ▶ **For new members, please consider sharing:**
  - ▶ Your **name**
  - ▶ Your **organization** or **affiliation** ('interested community member' is just fine!)
  - ▶ Your **preferred pronouns** (such as: she/her/hers, he/him/his, they/their/theirs)
  - ▶ Your **main reason** for joining this Cathedral Park Project Area Working Group 😊

# Agenda for Today

- ▶ **High level recap** of March 23<sup>rd</sup> meeting
- ▶ **Revisit** EPA's Incremental Sampling approach for the Cathedral Park Project Area and updated sampling decision units (per feedback from March 23<sup>rd</sup> meeting)
- ▶ **Update** working group members on draft sampling plan for the Cathedral Park Project Area
- ▶ **Discuss** educational activity for EPA's Cathedral Park Project Area Sampling work
- ▶ **Summarize & Discuss Next Steps** for this Working Group
  - ▶ Schedule May meeting (if needed)

 **Sharing the virtual space** 😊

# Cathedral Park Project Area Working Group

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## March 23<sup>rd</sup> High Level Meeting Overview

March 23 <sup>rd</sup> Working Group Topic	Summary
<b>Overview of Purpose and Future</b> for Cathedral Park Project Area Working Group	<ul style="list-style-type: none"><li>• <b>Purpose:</b> Discuss community education and engagement opportunities for EPA's initial sampling work at the Cathedral Park Project Area (planned to start in Spring 2021)</li><li>• <b>Future:</b> Once EPA enters into an agreement with a working party or parties for the Cathedral Park Project Area, the future of this group is uncertain.</li></ul>
EPA Presentation on <b>Incremental Sampling Methodology</b> and feedback on sampling decision units from working group members	<ul style="list-style-type: none"><li>• Video clip of Josie's 3/23/21 <a href="#">introduction to incremental sampling at the Cathedral Park Project Area</a></li><li>• Concept and purpose of incremental sampling methodology (ISM)</li><li>• Overall process of analyzing incremental samples</li><li>• Collected feedback from community members on how they use the Cathedral Park beach and project area to inform sampling decision units</li></ul>
Initial discussion on <b>educational activity</b> for the Cathedral Park Project Area riverbank/beach sampling	<ul style="list-style-type: none"><li>• Discussed/reviewed timeline for educational activity</li><li>• Started to think about audiences for the riverbank/beach sampling activity and potential activity ideas</li></ul>



# EPA's Incremental Sampling Approach

- ✓ High-level review of EPA's Incremental Sampling Approach at the Cathedral Park Project Area
- ✓ Updated sampling decision units (from feedback received at the March 23<sup>rd</sup> working group meeting)

# Why use Incremental Sampling Methodology (ISM) on the Cathedral Park Beach?

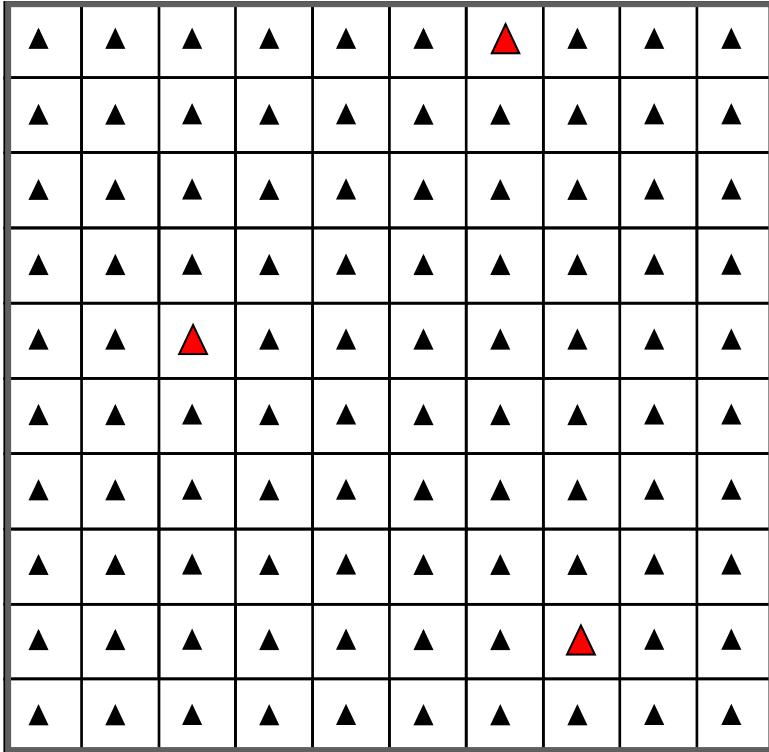
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- Incremental samples are structured samples that provide an unbiased, reproducible estimate of the mean of a given volume of soil (e.g., decision unit). **Provides certainty of the "average" concentration.**
- **Purpose:** Gain **high level of confidence** that we understand the current level of contaminants that people who use the beach are exposed to over a long time period.





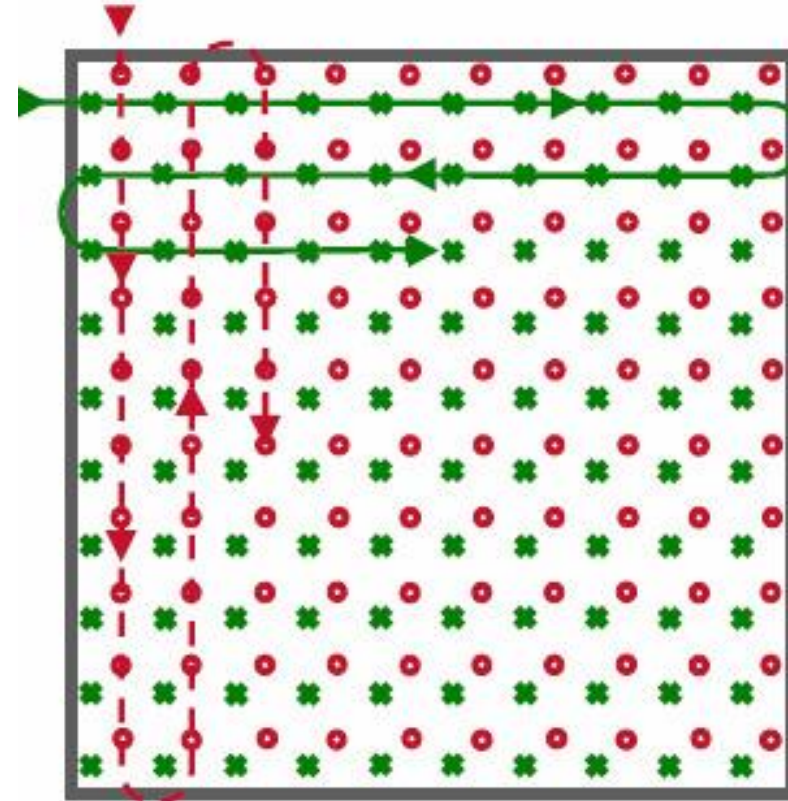
# Why use Incremental Sampling Methodology (ISM) on the Cathedral Park Beach?



## Discrete Samples:

The samples are collected from a single location.

*The difference between traditional samples and incremental samples.*



## Incremental Samples:

An incremental sample is assembled from a large number (i.e., 30-100) of samples of equivalent size/mass (increments) collected across the decision unit.

Walking, encampments/camping in this area

Pilings are here but if removed may create recreation space where folks would come (Willie)

People don't typically swim here.

Fish resting spot, would be good future habitat area (Doug)

Where do most people picnic/lounge?

Where do dogs run?

Is the area upstream of dock heavily used?

Is the area downstream of the bridge heavily used?

Where do people enter the water?

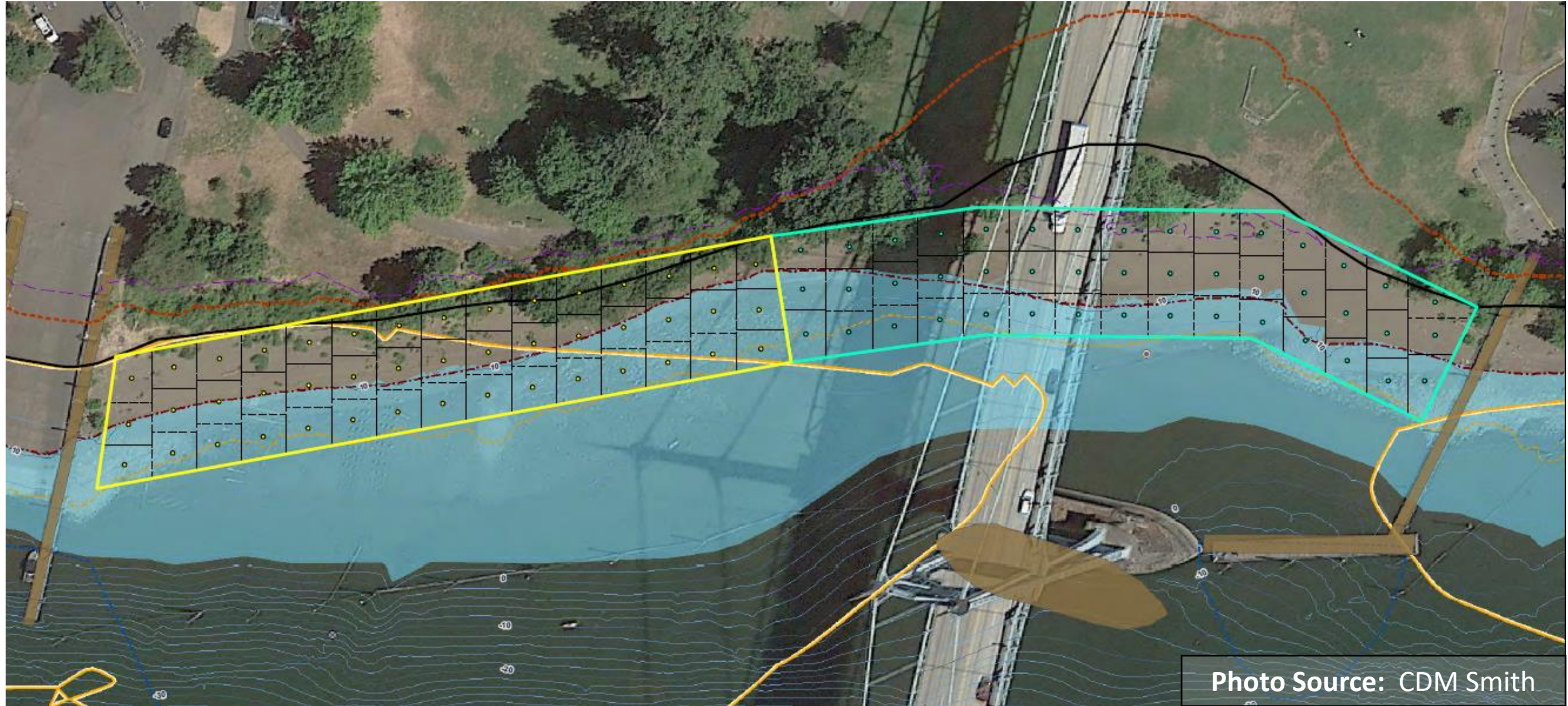
How far out do people wade in the water?

camping south of here

swimming: not as recreational as in the horseshoe area



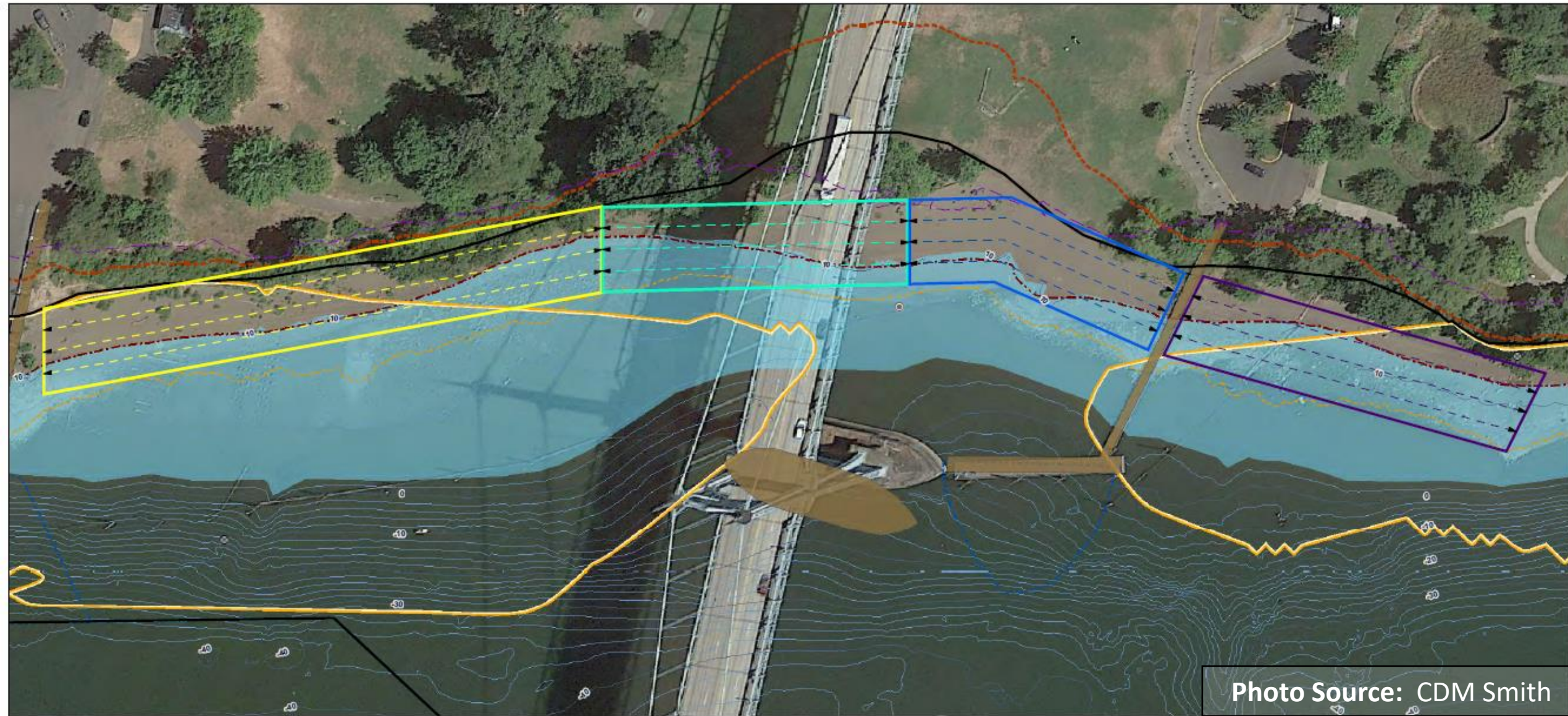
# Option 1: 2 sample areas, 3 replicates in each





# Final sample area

*(per March 23<sup>rd</sup> working group feedback)*



**Photo Source:** CDM Smith

# Update: Draft sampling plan for the Cathedral Park Project Area

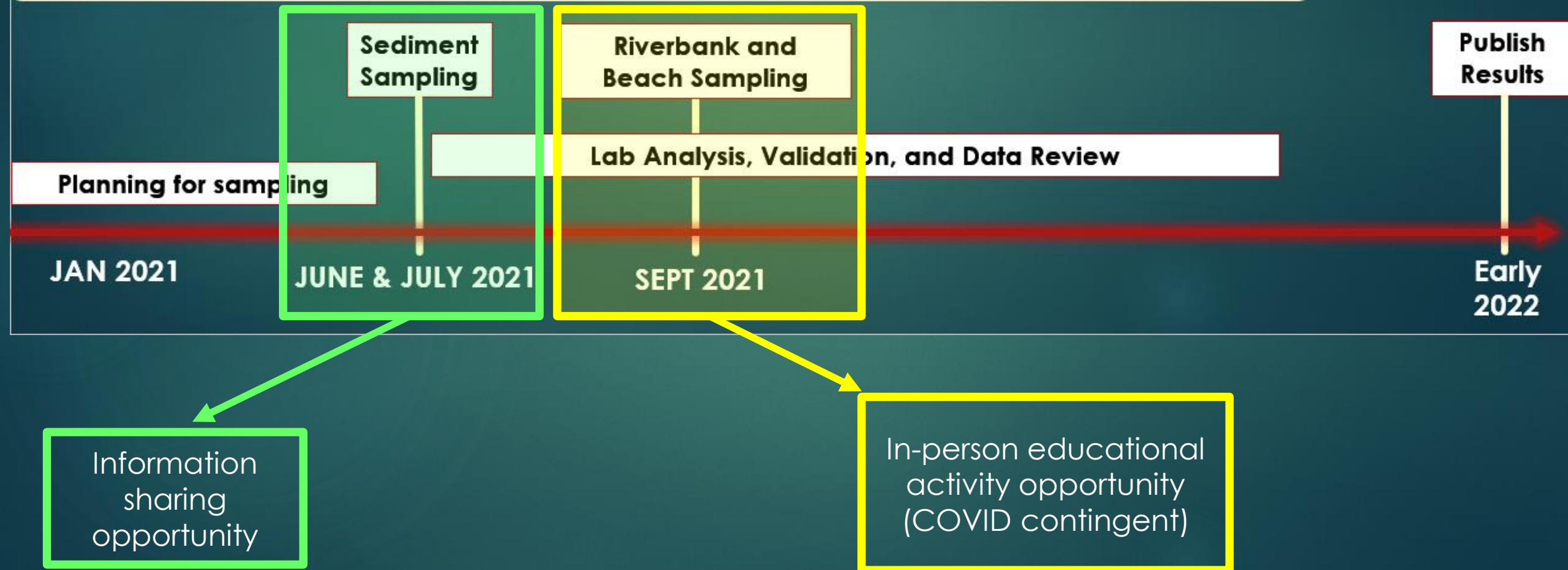
- ✓ EPA shared the draft Quality Assurance Project Plan (QAPP) with the Willamette River Advocacy Group & their technical advisor on April 17, 2021
- ✓ Technical comments are due to EPA from the WRAG on May 3, 2021



# Educational Activities Discussion!

## *Cathedral Park Project Area*

### Very Tentative Timeline (for Cathedral Park Project Area)





# Information Sharing Opportunity

## *In-Water Coring/Sampling (~June/July 2021)*

- ▶ EPA will be able to collect some video snippets and photos of in-water sampling
- ▶ **Questions:**
  - ▶ Who would benefit most from seeing these videos and photos?
  - ▶ Where could/should EPA be sharing or posting these videos and photos so that they are most useful to community members?

# In-Person\* Educational Activity 😊

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## Beach/Riverbank Sampling (~Sept. 2021)

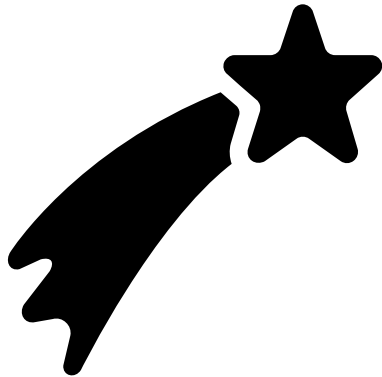
*\*Will adhere to all COVID protocols and is also contingent on COVID status*

**1. Audience for educational activity.** Who does the working group want to focus/tailor this educational activity for?

**2. Goal of the educational activity.** What goal or goals does this working group want to have for the audience of this educational activity? Some example goals:

- Educate people about EPA's sampling work.
- Educate people about the Portland Harbor Superfund Site.

# Summarize + Discuss Next Steps



- ✓ Action Items?
- ✓ Proposed Topics for Next Meeting?
  - ❑ Comments (WRAG\* & TCT\*) on draft EPA Sampling Plan?
- ❑ Continue discussion and development of educational activity?
- ✓ File Viewing & Sharing Update (Lucila)
- ✓ Schedule Next Meeting?

\*WRAG: Willamette River Advocacy Group  
\*TCT: Technical Coordinating Team

**Thank You!**